REGISTRATION OPENING: September 22nd, 2022 at 12:00 pm (Italian time) DEADLINE FOR APPLICATIONS: October 11th, 2022 at 1:00 pm (Italian time)









Rector's Decree No 1076/2022 Prot. N°238586 of 21/09/2022

THE RECTOR

- GIVEN the Statute of the University of Modena and Reggio Emilia, enacted by Rector's Decree no. 3 of February 6th, 2012 and subsequent amendments and additions;
- GIVEN the Italian Prime Minister's Decree of April 9th, 2001 on "Uniform treatment regarding the right to higher education", in accordance with art. 4 of Law no. 390 of December 2nd, 1991, and subsequent amendments and additions;
- GIVEN art. 4 of Law no. 210 of July 3rd, 1998 on "Guidelines for the recruitment of tenured university researchers and professors", published in the Official Gazette of July 6th, 1998, General Series no. 155, and subsequent amendments and additions;
- GIVEN Ministerial Decree no. 226 of December 14th, 2021, on "Regulation on the procedures for the accreditation of seats and PhD programmes and criteria for establishment of the PhD programmes by the accredited institutions", published in the Official Gazette of December 29th, 2021, General Series, no. 308;
- GIVEN Rector's Decree no. 481 of May 12th, 2022, implementing the provisions contained in Ministerial Decree no. 226 of December 14th, 2021, to enact the University Regulations governing PhD studies, and subsequent amendments and additions;
- GIVEN Law no. 240 of December 30th, 2010;
- GIVEN Ministerial Decree no. 301 of March 22nd, 2022 on "Guidelines for the accreditation of PhD programmes in accordance with art. 4, paragraph 3, of the Regulation as per Ministerial Decree no. 226 of December 14th, 2021";
- GIVEN Ministerial Decree no. 351 of April 9th, 2022 which set out for the academic year 2022/2023 the attribution on PNRR, Mission 4, Component 1 "Strengthening the offer of educational services: from Nursery to University" Investment 3.4 "Didactics and advanced university skills" and Investment 4.1 "Extension of the number of the PhD programmes and innovative PhD Programmes for the Public Administration and the Cultural Heritage" of three-years PhD scholarships for the attendance of PhD courses;
- GIVEN Ministerial Decree no. 352 of April 9th, 2022 which set out for the academic year 2022/2023 the attribution on PNRR, Mission 4, Component 2 "From the research to the enterprise" Investment 3.3 "Introduction of innovative PhD Programmes that meet the innovation needs of the enterprises and promote the recruitment of Researchers by the enterprises" of three-years PhD scholarships for the attendance of PhD courses;
- GIVEN the resolutions of the Senate of May 10th, 2022 and of the Exexcutive Boards of May 13th and 20th, 2022 which approved the planning and the establishment of PhD programmes, with administrative headquarters at the University of Modena and Reggio Emilia;

- GIVEN the Rectoral decree of June 10th, 2022, no. 613, which determined the amount of tuition and fee charges for enrolment and attendance in PhD programmes for the academic year 2022/23;
- GIVEN the Rectoral Decree no. 698, prot. 156200 of June 29th, 2022 (as amended by Rectoral Decree no. 706, prot. 158814 of July 1st, 2022 and by Rectoral Decree no. 737, prot. 168811 of July 8th, 2022), by which selections for admission to the first year of the PhD Courses with administrative headquarter at the University of Modena and Reggio Emilia, for the 38th cycle, Academic Year 2022/2023, were announced:
- GIVEN Ministerial Decree no. 925 of July 29th, 2022, which extended the deadline for finalizing the procedures for the assigning of doctoral scholarships financed by Ministerial Decrees 351 and 352 of April 9th, 2022;
- GIVEN the additional sources of funding acquired pursuant to Ministerial Decree 352 of April 29th, 2022;
- GIVEN the requests made by the Coordinators of the PhD courses to re-appoint places with scholarships financed by Ministerial Decrees 351/2022 and 352/2022 that were not allocated in the previous call for selection published on June 29th, 2022;
- DEEMED that it is necessary to proceed with the publication of the call for admission to the aforementioned courses with timing and selection procedures that can respect the timeframe of DM 925/2022 for the publication of the rankings;

DECREES

ARTICLE 1 – Institution

The University of Modena and Reggio Emilia hereby announces selection procedures for admission to the PhD programmes with triennial term as from November 1, 2022 listed in art. 17, which follows, for the XXXVIII cycle, Academic Year 2022/2023.

PhD scholarships awarded by the founding of MD no. 351/2022 and 352/2022 are subject to the verification of eligibility and evaluation of the Ministry of University and Research.

The grantees of PhD scholarships, which provide the development of a specific research theme, are bound to conduct this activity.

The research activities financed by MD no. 351 of April 9th, 2022 provide periods of study and research abroad from a minimum of six months and a maximum of eighteen months and periods of study and research in the enterprise, research institution or public administration from a minimum of six months to a maximum of twelve months.

The research activities financed by MD no. 352 of April 9th, 2022 provide periods of study and research abroad from a minimum of six months and a maximum of eighteen months and periods of study and research in the enterprise, from a minimum of six months to a maximum of eighteen months.

<u>This call is equivalent to notification to all intents and purposes.</u> Any changes, updates or additions to the content of this call will be announced, <u>exclusively</u>, on the following website: https://www.unimore.it/bandi/StuLau-Sdott.html and on the online University notice board (https://wss.unimore.it/public/albo/).

ARTICLE 2 - Admission requirements

The competition is open to any candidate, regardless of age or nationality, who as of **October 31**st, **2022**, holds an Italian degree obtained prior to D.M. 509/99 or an Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04), or an equivalent academic qualification from a foreign University, that has to

be validated by the Selection Committee, following the legislation in force both in Italy and in the Country where the qualification was issued and within the international treaties or agreements on the recognition of international qualifications, in the case where degrees in specific subjects are required for admittance to the Programme.

Candidates who have a foreign academic qualification must submit any relevant documents useful for verifying equivalency: their degree certificate with a list of exams taken, along with an Italian or English translation, an authentication, and:

- for degrees obtained in European Union countries: Diploma supplement or certificate of comparability and verification issued by the CINEA, as a ENIC_NARIC center
- for degrees obtained in countries outside the European Union: "declaration of validity" (dichiarazione di valore in loco") issued by the competent Italian consular or diplomatic representative for the country, or certificate of comparability and verification issued by the CINEA, as a ENIC NARIC center.

If not yet available, candidates must fill in the description of the degree with a list of exams passed, by using Annex A2, attaching the documents to the application for admission using the online procedure described in Art. 3.

Candidates who complete their degree after the deadline for this call must submit a Degree certificate or the form in Annex A2 (in case of degree awarded by a foreign institution) or a self-certification to prove that the degree has been conferred (using the form in Annex A1, in case of degree awarded by an Italian University):

- in case of degree completed before enrolment: by enclosing the form with the enrolment application form,
- in case of degree not yet completed when enrolling in the PhD Programme: by submitting the form to the PhD Office, by and no later than, October 31st, 2022, via e-mail to the address segr.dottorati@unimore.it.

For the purposes of admission to the doctorate course, in any case, Italian nationals and foreigners holding a foreign academic qualification must submit to the PhD Office, by and no later than, December 31st, 2022, via e-mail to the address segr.dottorati@unimore.it, their degree certificate with a list of exams taken, along with an Italian or English translation, an authentication, and

- for degrees obtained in European Union countries: Diploma supplement or certificate of comparability and verification issued by the CINEA, as a ENIC NARIC center;
- for degrees obtained in countries outside the European Union: "declaration of validity" (dichiarazione di valore in loco") issued by the competent Italian consular or diplomatic representative for the country, or certificate of comparability and verification issued by the CINEA, as a ENIC_NARIC center.

The University reserves the right to exclude from the competition any candidate who has not submitted the required documents by the deadline cited above without a justified reason.

The competent offices will be checked the information sent by candidates in order to verify correctness.

All candidates are admitted to the selection conditional upon verification of the aforementioned requirements.

<u>The University Administration reserves the right to exclude, at any time, candidates who have not the requirements for admission.</u>

ARTICLE 3 – Admission applications

Applications for admission to competitions and any required enclosures must be submitted <u>following the online procedure</u> within the final deadline of **October 11**th, **2022**, **at 1:00 p.m.** (**local time**), when the competition closes. Candidates failing to comply will not be considered.

Candidates interested in a PhD Programme must submit an admission application, with a request to take part in the relevant selection procedure.

Candidates interested in more than one PhD Programme must submit a separate admission application for each individual Programme.

Candidates interested in applying for more than one selection procedure must submit the application forms for each of the selections in which they want to take part. This applies in case of PhD Programmes where there are more than one selection procedures (as indicated in art. 17 in the paragraphs related to each Programme).

Admission applications and any required enclosures (academic qualifications, documents and publications considered useful for competition purposes) must be submitted to this Administration before the final deadline for the competition, using the following method only:

- by Internet, on the University website https://www.esse3.unimore.it/Home.do (new users must register by selecting "Menu", top right, and then "Registration"; those who have already registered should select "Menu", and then "Login" with the credentials received following registration or with their SPID (Public Digital Identity System) credentials and proceed with the following steps: insert username and password, and then, select "Menu" – "Student Area/Registered Area" - "Admission" – "Admission Exams" – "Ph. D.").

All academic qualifications, documents and publications considered useful for the application procedure must be attached in .pdf or .rtf file form with a maximum size of 20 MB. Attachments larger than 20 MB must be divided into smaller files.

Each application must refer to a single selection procedure and will require a payment of € 25.00, not refundable, to cover administrative costs. Therefore, candidates wishing to apply to more than one selection procedure must submit a separate application and the € 25.00 fee for each selection procedure.

The pay slip will only be available at the end of the procedure with the final data saving.

Payment must be made using the following method:

Access Esse3. by connecting to the University website at https://www.esse3.unimore.it/Home.do with your credentials, and under the menu item "Taxes" proceed with the payment through the PAGO PA circuit that allows to pay online (by choosing your Payment Service Provider – PSP) or alternatively to print the payment notice to be delivered personally to Banks and ATMS, SISAL, Lottomatica and ITB stores. From your personal Esse3 page, under the menu item "Taxes", you can print the payment receipt. With the PagoPa circuit, the payment acquisition times in Esse3 are normally comparable to those of the credit card.

The payment of € 25.00 must be made before October 11th, 2022.

Candidates must keep the payment receipt for € 25.00. First year candidates should instead enclose it with the enrolment application form before the deadline and in accordance with the terms and conditions in art. 7.

The application for admission will be considered to be correctly filed only by saving the data ("Save the data") after the "Explicit confirmation of the validity of the application" given by the candidate at the end of the online procedure mentioned above.

Before the data saving ("Save the data") that follows the "Explicit confirmation of the validity of the application", and prior to the deadline for the competition, candidates may add, change or remove attached academic qualifications, documents and publications using the abovementioned website. The procedure is as follows: select "Menu", "Login", insert username, password, and then, in the Student area, select "Admission").

After the data saving ("Save the data") that follows the "Explicit confirmation of the validity of the application", in the case of errors or incomplete insertion of attachments using the online procedure, candidates can send an email to the PhD Office (segr.dottorati@unimore.it) within the peremptory deadline of the call deadline (October 11th, 2022, 1.00 pm) for requesting the reopening of the online procedure by attaching a scanned copy of an identity document. The candidate must make the corrections / additions he deems appropriate within the same deadline (October 11th, 2022, 1.00 pm). In this case, please note that the candidate will have to save the "Save data" data again following the explicit confirmation of the application.

At the end of the admission procedure a reminder summary of the application form is generated for each candidate. This document must be kept by its candidate and should not be transmitted to anyone else.

Applications and supporting enclosures may not be submitted by e-mail or fax.

The University Administration reserves the right to exclude, at any time, candidates who have not paid the fee of € 25.00 referred to in this Article.

The University Administration does not respond in the event that the candidate incurs errors in the choice of selection of his interest. In this case the candidate must produce new instance and provide for the payment of the contribution provided by the deadlines of this call.

Any communications to candidates concerning this call are made by e-mail. For this purpose, is used e-mail address indicated by the candidate during the registration procedure referred in Article. 3. Candidates, whose email addresses are already present in the registry, are asked to want to update data if necessary.

In the event of any technical and/or operating difficulties, please write to the following e-mail address: webhelp@unimore.it.

Admission applications, submitted in accordance with the indications given above, will be considered valid only if they reach this Administration before the final deadline.

Therefore, any applications arriving after the deadline, or not submitted in accordance with above requirements, will not be considered.

As part of the procedural information in making the application, the candidate takes personal responsibility for declarations in relation to:

- a) name and surname;
- b) place and date of birth;
- c) residential address, telephone/cell number, elected domicile for the purposes of this competition, and e-mail address;

- d) tax identification number ("codice fiscale"- if candidates have one. Candidates who do not have a tax identification number need only to confirm the one that will automatically be assigned to them by the system);
 - e) citizenship;
 - f) possession of a secondary school qualification;
- g) possession of an Italian old ordinance degree or second level degree (laurea specialistica or laurea magistrale), or an equivalent academic qualification issued by a foreign University;
 - h) the exact title of the PhD Programme chosen by the candidate;
 - i) curriculum vitae;
 - i) academic qualifications and any other documents;
 - k) publications;

By submitting the application, the candidate agrees:

- 1) to attend the PhD programme on a full-time basis, in accordance with the conditions established by the Teaching Committee;
 - 2) to notify the University immediately of any changes in residence or address;
- 3) in the case of Italian nationals or foreign citizens holding a foreign degree, to send the degree certificate, with a list of exams taken, along with an Italian or English translation, an authentication and "declaration of validity" issued by a competent Italian diplomatic-consular representative for the country, or Diploma supplement or certificate of comparability and verification issued by the Cimea as a ENIC_NARIC center, in accordance with the regulations governing the admission of foreign students to Italian university degree courses, by the final deadline of December 31st, 2022;
- 4) in the case of candidates who complete their degree after the deadline for this call, but before October 31st, 2022, to send their degree certificate or facsimile attachment A2 (if awarded by a foreign university) or a self-certification to prove that the degree has been conferred (if awarded by an Italian university, please use form in Annex A1), by the final deadline and in accordance with the conditions indicated in art. 2 of this competition. Candidates failing to comply will not be considered.

The Administration may decide, at any time, with its reasoned decision, the exclusion from the selection.

Admission applications and or related attachments will not be considered for any of the following reasons: submission or receipt of applications after the deadline or non-compliance with the procedural requirements of the competition.

The Administration cannot be held responsible for any loss of correspondence due to the following situations: incorrect contact details, failure or delay in notification of a change in address, technical errors, negligence of third parties, or a *force majeure*. Furthermore, the Administration shall assume no responsibility for attachments not received as a result of third-party involvement, faulty attachment of documents by the candidate, or any type of network failure.

ACADEMIC QUALIFICATION CERTIFICATES, DOCUMENTS AND PUBLICATIONS:

Candidates with any academic qualification certificates, documents or publications considered useful for the purposes of the competition procedures must attach the following certificates, documents and publications, except in the cases stipulated in Art. 17, for each Programme:

- 1) (for candidates holding an Italian degree) a self-certification to prove to meet the requirements (using the form in Annex A1) in accordance with articles 46 and 47 of the Presidential Decree 445/2000;
- 2) (for candidates holding a foreign degree) degree certificate with a list of exams taken, along with an Italian translation, an authentication, and a "declaration of validity" "dichiarazione di valore in loco" issued by the competent Italian consular or diplomatic representative for the country, or Diploma supplement or certificate of comparability and verification issued by the Cimea as a ENIC_NARIC center. If not yet available, candidates have to attach the description of the degree with a list of exams taken together with a statement of truth of the certificates attached, by means of a self-certification in accordance with Articles 46 and 47 of the Presidential Decree 445/2000 using Annex A2;
 - 3) scanned copy of a valid identity card or passport;
 - 4) curriculum of research and teaching activities;
- 5) academic qualification certificates and documents considered useful for the purposes of evaluation with corresponding list;
- 6) letter/letters of presentation/reference/recommendation (maximum 3); in the online admission application candidates must enter name, surname, e-mail address, status, Institution/Organization of affiliation of the academic/researcher/expert for the letter of presentation/reference/recommendation. After the data saving ("Save the data") that follows the "Explicit confirmation of the validity of the application" by candidates, the computer the an e-mail to referent to request presentation/reference/recommendation letter and containing the instructions for the upload. The deadline for the referent to upload the letter is October 12th, 2022, at 11:59 pm (italian time); the candidates can check on the summary page of the application form (can be reached by accessing the University's website at https://www.esse3.unimore.it/Home.do and making the "Login") if the presentation/reference/recommendation letter was sent by the referent. Within the abovementioned deadline, the candidates can send to the referent who has not yet completed a reminder by selecting the item "reminder" from the summary page of the application form.
 - 7) academic publications with corresponding list;

Under article 15 of Law no. 183 of November 12th, 2011, certificates regarding personal qualities, status and facts issued by the public administration can be only used for private purposes. Self-certification, under articles 46 and 47 of Presidential Decree 445/2000, can replace attested declarations for public administration or public services purposes.

Publications in languages other than Italian, English, French, German or Spanish, or which do not include a summary in one of the abovementioned languages, must be produced in the original language and translated into Italian.

Certificates issued by the competent authorities of the foreign candidate's country of citizenship must comply with the provisions in force in the same country. Certificates in a language other than Italian, English, French, German or Spanish, must also be translated and authenticated by the competent Italian diplomatic or consular authorities.

An Italian translation must be attached to all documents written in a language other than Italian, English, French, German or Spanish and must be certified as conforming to the foreign text by a competent Italian diplomatic authority or an official translator.

ARTICLE 4 – Selection Committee

Each committee responsible for the evaluation of candidates will be appointed by a Rector's decree and composed of three permanent members and one or more substitute members. They will be selected from the University's tenured professors and researchers.

A maximum of two Italian and/or foreign experts may be chosen from public and private research bodies or institutions. An administrative staff clerk may be called to verbalize.

ARTICLE 5 – Admission procedures

The selection procedures are indicated in art.17, in the sections relating to each PhD Programme.

ARTICLE 6 - Ranking

At the end of the selection process, each committee will publish a final merit-based list ranking the candidates.

The final merit list will be approved by a Rector's Decree, once all documentation has been declared valid.

Candidates will be admitted to Programmes according to their positioning on the merit list until all available places have been allocated for each PhD Programme.

The final rankings of candidates will be announced publicly exclusively by:

- publication on the University website at https://www.unimore.it, under: "Academic programmes" / "Doctorate Programmes", within the designated section for each PhD Programme;
- publication on the online University notice board (https://wss.unimore.it/public/albo/).

Should a candidate qualify for a place in more than one ranking, he/she may register for only one PhD Programme.

The concurrent enrollment in several study programmes is ruled by Law no. 33 of April 12th, 2022.

The joint attendance of the PhD programme and a medical specialisation school is allowed in compliance with the following general criteria:

- a) compatibility, also in consideration of the distance between the seats, of the activities and commitment provided by the graduate school and the PhD programme, certified by the board of the medical specialisation school and by the PhD Teaching Body;
- b) incompatibility between the PhD scholarship and fees, however denominated, received in relation to the activities of the specialisation school.

In cases of joint attendance referred to in this article, the request for reduction of doctoral activities is accepted by the faculty of the doctoral programme, after positive evaluation of the consistency of the research activities already carried out in the medical specialisation course, with the doctoral project. For the purposes of accepting the application referred to in this paragraph, the opinion of compatibility, expressed by the board of the specialisation school, of the doctoral project with the educational purposes of the graduate school itself is also required. If the application referred to in this paragraph is accepted, the PhD programme has a duration of no less than two years.

ARTICLE 7 – Enrolment

Within the mandatory seven-day time limit, starting from the day after the publication of the final rankings on the online University notice board as mentioned above in Art. 6, Candidates who are favourably ranked in the final merit rankings must enrol in the first year of the PhD course exclusively in accordance with the following procedure:

connect to the University website https://www.esse3.unimore.it/Home.do (new users must register by selecting "Menu", top right, and then "Registration"; those who have already registered should select "Menu", and then "Login" with the credentials received following registration or with their SPID (Public Digital Identity System) credentials, follow the

instructions: "Student Area" - "Enrolment" – "Enrolment according to ranking"; if an applicant has forgotten his/her username and password, assistance is available via email at webhelp@unimore.it).

Candidates will be asked to enclose the digital copy of the following documents:

- a) digital passport photo: a colour passport photo, showing a frontal view of your face, with a neutral or uniform background (in JPEG or BITMAP format);
- b) scanned copy an identity document, duly signed;
- c) scanned copy of the tax identification card;
- d) scanned copy of the receipt for the payment of € 25.00 required for participation in the competition, in accordance with art. 3;
- e) self-certification to prove the possession of a university degree (using the form in Annex A1 for Italian degrees or the form in Annex A2 for foreign degrees), in case of degree already awarded;
- f) in case of applicants with scholarship, Annex E "Declaration accompanying application for enrolment on a PhD Programme" part 1 and part 2;
- g) (in case of students of specialization schools in the medical area) a written permission issued by the Specialization School Committee, following previous art. 6.

Please note that the mere completion of the online form is NOT sufficient for enrolment. PhD students must pay the single tuition payment by the aforementioned deadline date (i.e. within seven days of the publication of the rankings). Failure to comply within this deadline will result in exclusion from the PhD program.

Payment must be made at the end of the enrolment procedure using one of the following methods:

Access Esse3. connecting University bγ to the website at https://www.esse3.unimore.it/Home.do with your credentials, and under the menu item "Taxes" proceed with the payment through the PAGO PA circuit that allows to pay online (by choosing your Payment Service Provider – PSP) or alternatively to print the payment notice to be delivered personally to Banks and ATMS, SISAL, Lottomatica and ITB stores. From your personal Esse3 page, under the menu item "Taxes", you can print the payment receipt. With the PagoPa circuit, the payment acquisition times in Esse3 are normally comparable to those of the credit card.

The print copy of the enrolment application and receipt of payment must be kept by the applicant and not submitted to the Office.

Candidates gaining their academic qualification after the date of enrolment must send Annex A1 (if the qualification is conferred in Italy) or Annex A2 (if the qualification is conferred abroad) to the PhD Office (Via Università n.4, 41121 Modena) no later than October 31st, 2022, via E-MAIL to the address segr.dottorati@unimore.it.

Italian nationals and foreigners holding a foreign academic qualification must present to the PhD Office (Via Università 4, 41121 Modena), no later than December 31st, 2022, via E-MAIL to the address segr.dottorati@unimore.it, their degree certificates with a list of exams taken, along with an Italian or English translation, an authentication, and

- for degrees obtained in European Union countries: Diploma supplement or certificate of comparability and verification issued by ENIC_NARIC centers;
- for degrees obtained in countries outside the European Union: "declaration of validity" (dichiarazione di valore in loco") issued by the competent Italian consular or

diplomatic representative for the country, or certificate of comparability and verification issued by the Cimea as a ENIC NARIC center.

Failure to submit the above documentation may result, at the sole discretion of this Administration, in the failure to pay the scholarship until it is presented. It is understood that, if the documentation, once submitted, should highlight the lack of access requirements, the doctoral student will be excluded.

As soon as the registration procedure has been completed, all recipients of scholarships must register with the I.N.P.S. Separate Management Fund ("Gestione Separata") and forward a self-certification to prove registration (using ANNEX D "Self-certification of subscription to Gestione Separata Inps") to the Salaries Office ("Ufficio Contabilità") by October 31st, 2022, by sending a scanned copy via e-mail to ufficiostipendi@unimore.it. If PhD students are already registered with the I.N.P.S (Italian Social Security Institute) Separate Management Fund as a result of previous collaboration with other institutions, they merely need to forward the self-certification confirming the registration with the I.N.P.S (in the same way as indicated above).

Foreign citizens who do not yet have a tax identification number must apply to the "Agenzia delle entrate" (Italian Revenue Agency) after their arrival in Italy, and must forward a copy of the card issued by the Agency before October 31st, 2022, to the PhD Office, by sending a scanned copy via mail to segr.dottorati@unimore.it.

For information and assistance concerning the Tax ID code, housing, residence permit, entry visa, registration with the I.N.P.S. Separate Management Fund ("Gestione Separata"), foreign nationals may submit a request to the International Welcome Desk Office, at: internationalwelcomedesk@unimore.it.

Any candidates who have not completed their enrolment in accordance with the terms and conditions indicated above will be considered as withdrawn.

In the case of, from the documentation presented by the candidate, false or misleading declarations are found, relevant for the purposes of enrolment, without prejudice to the penal sanctions referred to in Article 76 of the D.P.R. n.445 of December 28th, 2000 and subsequent modifications, the candidate automatically expired from any enrollment and the fees paid by the interested party will not be refunded.

The university administration reserves the right to ask enrolled students to complete the enrolment documentation if incomplete and/or to provide payment receipt of the single or first instalment.

Any remaining places will be assigned to alternate candidates, according to their positioning on the final merit list.

Vacant reserved places can be filled by other selected candidates or, when there are more than one selection procedures, they will be added to the number of available places of the main selection.

ARTICLE 8 – Reassignment of Places

In the event of vacancies, eligible candidates will be contacted by e-mail and will be invited to enrol, in accordance with the requirements indicated in the preceding article, within two days from the time of receipt of the email. Failure to comply will result in loss of the right to admission.

The procedure will be completed by October 24th, 2022.

ARTICLE 9 - Scholarships

The number of study scholarships assigned is indicated in art. 17, divided by courses; these scholarships will be awarded according to the positioning of candidates on the final merit list.

In the case of candidates of equal merit, a decision will be made on the basis of the candidates' financial situation, determined in accordance with the Italian Prime Minister's Decree of April 30th, 1997 and subsequent amendments. Candidates of equal merit will be requested by e-mail to submit for the purposes of evaluating their financial situation:

- Receipt of submission of the Single Sworn Declaration for calculating the ISEE bracket (DSU); this must be forwarded within the final deadline of two days from the day the e-mail was sent. Failure to comply will result in loss of the right to admission.
- The formal I.S.E.E. (Indication of Equivalent Financial Situation) by I.N.P.S.; this must be forwarded within the final deadline of five days from the day the e-mail was sent. Failure to comply will result in loss of the right to admission.

If the ISEE indicator is equal, the youngest candidate takes precedence.

The annual amount of a study scholarship is € 16.243,00 (barring subsequent regulatory amendments) and is subject to the I.N.P.S. social security contribution under the separate management fund.

Study scholarships are automatically renewed when PhD students continue in the following year, unless a motivated ruling to the contrary is made by the Teaching Committee. Study scholarships will be paid in monthly deferred instalments.

PhD scholarships cannot be combined with other scholarships or other forms of financial assistance paid by the University and/or the State, with the exception of those designed to be integrated with PhD student research activities, for periods spent abroad.

Scholarship amounts will be increased by 50% for periods spent abroad of no longer than 12 months. This period may be extended up to a maximum of 18 months for doctoral students under joint guidance or Double Degree program with foreign institutions. This increase may be granted to students awarding positions without scholarship too.

From the first year, each PhD student (with or without scholarship) is guaranteed a budget for an amount not less than 10% of the annual amount of the study scholarship.

ARTICLE 10 - Fees for PhD Programmes

Fees for PhD program in "Clinical and experimental medicine (CEM) which must be paid in one instalment to the enrolment by those who enrol are € 180.48 (the amount of the payment slip that can be downloaded online includes the regional tax, the stamp duty and the insurance coverage with medical fault and contagion risk).

Fees for other PhD programs which must be paid in one instalment to the enrolment by those who enrol are € 159.67 (the amount of the payment slip that can be downloaded online includes the regional tax, the stamp duty and the insurance coverage).

The amounts, and the deadlines for the contribution for the following years will be determined from year to year and will be notified on the web page http://www.unimore.it/didattica/dottorati.html (approximately towards the end of July).

ARTICLE 11 - Rights and Responsibilities of PhD Students

PhD Programmes require a full-time and exclusive commitment. PhD students may accept forms of employment, pending authorization from the PhD Programme Teaching Committee, related to work activities useful for the acquisition of skills pertaining to the PhD research area, after evaluation of compatibility of those activities with the fruitful development of the educational, didactic and research activities of the doctoral course.

The provisions in art.16 regulate the other responsibilities and rights of doctoral students, including incompatibility, exemption from the obligation to attend, and the conditions of exclusion, as well as the procedure for awarding the PhD of this competition. Further specific obligations may be assigned to the recipients of PhD scholarships awarded by the founding of MD no. 351/2022 and 352/2022, that may be notified by the Ministry of University and Research.

ARTICLE 12 – Public employees

In accordance with the law, upon submitting an application, public employees who are admitted to a doctoral programme, in keeping with administrative requirements, are granted a leave of absence for study purposes, without remuneration, for the duration of the programme, and will receive a research grant, where applicable. In cases where they are admitted to a PhD programme without a scholarship, or if they decline a scholarship, they shall be entitled to the remuneration, insurance, and pension contributions pertaining to the public body by which they are employed. In cases where the employment relationship with the public body is terminated by the employee within two years after the awarding of the PhD degree, the employee shall be required to reimburse the amounts of the abovementioned remuneration and contributions.

Public employees who have already earned a PhD or who have been enrolled in a PhD program for at least one year, thereby benefiting from a leave of absence, are not entitled to an additional leave of absence with or without remuneration.

The period of the leave of absence shall be considered for purposes of career advancement as well as insurance and pension entitlements.

ARTICLE 13 – Awarding of the PhD

The PhD is awarded upon completion of the PhD Programme, when students pass their final examination that consists in the presentation of a PhD Thesis on an original research, carried out meticulously and where results are adequately and scientifically relevant. Should the assessment be negative, the final examination cannot be repeated.

Thesis defense will take place before an Examination Board appointed in compliance with the University PhD Research Program Regulations.

The Rector awards the title of PhD. The issue of the above title is dependent upon the candidate's submission to the competent office of the copy of the final thesis in digital format, which will be guaranteed to be kept and publicly accessible in the special open access archive of the University, as well as to be deposited in the ministerial database, in compliance with the regulations in force concerning thesis embargo and copyright.

Upon completion of the PhD programme, graduates will be invited to fill out a "Questionnaire on the opinions of programme attendees" for the AlmaLaurea database. This will enable the AlmaLaurea Inter-University Consortium to monitor the training of doctoral students.

ARTICLE 14 - Handling of personal data

The University Administration, in accordance with EU Regulation 2016/679 and Legislative Decree 196/03, as amended by Legislative Decree 101/2018, will use the applicant's personal data solely for the fulfilment of the selection procedures and for administrative purposes.

In accordance with the principles to mentioned rules, by participating in the competition, the candidate authorizes the University of Modena and Reggio Emilia to publish his/her personal data as well as information relating to the admissions examinations on the University website.

The University of Modena and Reggio Emilia adopts equal opportunity principles in its selection procedures and rejects any type of discrimination based on sex, gender identity, nationality, ethnicity, religious belief, sexual orientation, state of health, and any other status or quality that is not strictly relevant to the call outlined in this document.

ARTICLE 15 – Publication

This call is equivalent to notification to all intents and purposes. It will be published on the online University notice board (https://wss.unimore.it/public/albo/), on the website of the University https://www.unimore.it/bandi/StuLau-Sdott.html, and on the Website of the Ministry of University and Research:

http://bandi.miur.it/doctorate.php/public/cercaFellowship.

Any changes, updates or additions to the content of this call will be announced, exclusively, on the online University notice board (https://wss.unimore.it/public/albo/) and on the following website: https://www.unimore.it/bandi/StuLau-Sdott.html.

ARTICLE 16 – Additional Regulations and Director responsible for overseeing all procedures

For matters not explicitly covered in this application procedure, refer to the provisions contained in art. 4 of Law no. 210 of July 3rd, 1998, art. 19 of Law no. 240 of December 30th, 2010, Ministerial Decree no. 226 of December 14th, 2021 and to the University regulations in force governing PhD Programmes and to the Teaching Regulations of the University of Modena and Reggio Emilia.

The Director responsible for overseeing all procedures is the Representative of the PhD Office (Dr. Filippo Cavazzuti - Via Università, 4 – Modena - e-mail: segr.dottorati@unimore.it).

For further information, candidates may contact the PhD Office - Via Università 4, 41121 Modena - phone +39 059/2056423 - e-mail: segr.dottorati@unimore.it.

ARTICLE 17 – List of Doctorate Research Courses

1) PhD Programme in "CLINICAL AND EXPERIMENTAL MEDICINE (CEM)"

Places with scholarship:

- 1 with topic "An integrated experimental approach of "untargeted" metabolomics, use of microbial strains, in vitro, ex-vivo and in vivo models for the study and identification of novel bioactive compounds, probiotic, prebiotic and postbiotic candidates for the treatment of vaginal infections" (with PNRR DM352/2022 funds Mission 4, Component 2, Investment 3.3, for research activities at Depofarma S.p.A.) CUP: E93C22001820004;
- 3* with topic "Development of studies using an optimal approach for the risk / benefit ratio of the treatments of haematological neoplasms and a multidisciplinary approach to the study of the prognosis and treatments of patients with lymphoma, myeloma and myeloproliferative diseases"

*The person awarded the PhD scholarship financed by the AUSL-IRCCS of Reggio Emilia must meet the requirements established for the employees of the AUSL-IRCCS of Reggio Emilia by Law Decree no. 44 of April 1st, 2021, converted into Law no. 76/2021 and subsequent amendments and integrations, including those established by Law Decree of November 26th, 2021, no. 172 "Urgent measures for the containment of the COVID-19 epidemic and for the safe performance of economic and social activities", being equated to such personnel pursuant to Article 2 of Legislative Decree 81/08.

The person awarded the PhD scholarship financed by the AUSL-IRCCS of Reggio Emilia may also carry out research activities at the structures of the AUSL itself, according to the indications that will be provided by the PhD Course Coordinator and/or the Board of teachers.

Selection Procedure (for every selection procedures): The Course provides for two selection procedures depending on the type of places available. Candidates interested in more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

<u>In addition to the provisions of the art. 3 of this application procedure, candidates may submit</u> the following documents:

- 1) self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), with a list of exams taken and grades achieved;
- 2) Curriculum vitae of the scientific and teaching activities written in Italian or English indicating university qualifications held;
- 3) A summary of the final thesis in Italian or English, or equivalent, in a minimum of three and maximum of six pages organised under the following headings: subject of the thesis, research methodology, results obtained and their relevance for the study of mechanisms, diagnosis and therapy of human diseases;
- 4) A brief statement of no more than two pages written in English, outlining the motivation for attending the PhD Programme and a description of his/her areas of specific research interest (Statement of Research Interest);
- 5) Certification attesting the knowledge of the English language (TOEFL, Proficiency or other):
- 6) certificate of passing the GRE (Graduate Record Examination) test, if any;
- 7) At least two letters of presentation/reference/recommendation written by professors of the institutions in which the candidate has been training/working, which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call:
- 8) Scientific activity or certified courses abroad;
- 9) Fellowships and stipends for research or higher education:
- 10) Names, affiliation and email addresses of one or more referees.
- 1) Selection procedure for one place with scholarship with topic "An integrated experimental approach of "untargeted" metabolomics, use of microbial strains, in vitro, ex-vivo and in vivo models for the study and identification of novel bioactive compounds, probiotic, prebiotic and postbiotic candidates for the treatment of vaginal infections": based on academic and research record

Admission requirements: Italian second level degree "Laurea Magistrale" (under D.M. 270/04) or equivalent qualification (or "Laurea specialistica" under D.M. 509/99) or equivalent qualification obtained abroad, corresponding to LM-6 Biology, LM-8 Industrial Biotechnologies, LM-9 Medical, Veterinary, Pharmaceuticals Biotechnologies, LM-13 Pharmacy and Industrial Pharmacy, 6/S Biology, 8/S Industrial Biotechnologies, 9/S Medical, Veterinary, Pharmaceuticals Biotechnologies, 14/S Pharmacy and Industrial Pharmacy, or Italian degree obtained prior to D.M. 509/99 in Biological Sciences, Agro-Industrial Biotechnology, Biotechnology - Industrial Biotechnology, Biotechnology - Pharmaceutical Biotechnology, Biotechnology - Medical Biotechnology, Biotechnology - Veterinary Biotechnology, Chemistry and Pharmaceutical Technologies, Pharmacy, or equivalent qualification obtained abroad or equivalent qualification obtained abroad in accordance with the provisions in art. 2 of this application procedure.

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Final degree mark: from 0 to 10 points,
- Thesis/summary: from 0 to 12 points,
- Publications: from 0 to 4 points,
- Research statement: from 0 to 12 points,
- Periods of research abroad: from 0 to 5 points,
- Letters of presentation: from 0 to 12 points,
- Other qualifications (English language certificates, information and communication technology certificates, scholarships, awards, masters, PhD, work placements and others): from 0 to 5 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded.

2) Selection procedure for 3 places with scholarship with topic "Development of studies using an optimal approach for the risk / benefit ratio of the treatments of haematological neoplasms and a multidisciplinary approach to the study of the prognosis and treatments of patients with lymphoma, myeloma and myeloproliferative diseases": based on academic and research record

Admission requirements: Italian second level degree "Laurea Magistrale" (under D.M. 270/04) in degree class LM-41 Medicine and Surgery, or "Laurea specialistica" (under D.M. 509/99) in degree class 46/S Medicine and Surgery, or Italian degree obtained prior to D.M. 509/99 in Medicine and Surgery, or equivalent qualification obtained abroad in accordance with the provisions in art. 2 of this application procedure.

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Final degree mark: from 0 to 10 points,
- Thesis/summary: from 0 to 12 points,
- Publications: from 0 to 4 points,
- Research statement: from 0 to 12 points,
- Periods of research abroad: from 0 to 5 points,
- Letters of presentation: from 0 to 12 points,
- Other qualifications (English language certificates, information and communication technology certificates, scholarships, awards, masters, PhD, work placements and others): from 0 to 5 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded.

Areas of the PhD Programme: The Doctorate is organized in 3 curricula: - Public Health - Translational medicine – Nanomedicine, Medicinal and pharmaceutical sciences. Official course language: English.

Further information on research lines for each curriculum and the relative tutor is available on the PhD Programme website: http://www.cem-phdschool.unimore.it/

2) PhD Programme in "COMPUTER AND DATA SCIENCE FOR TECHNOLOGICAL AND SOCIAL INNOVATION"

Places with scholarship:

- 1 with topic "Smart and semi-automatic tools for optimisation and configuration of high-performance real-time embedded systems" (with PNRR DM352/2022 funds

Mission 4, Component 2, Investment 3.3, for research activities at Minerva Systems S.r.l.) CUP E93C22001200004

- 1 with topic "Efficient blockchain integration on IoT devices" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Digibelt S.r.I.) CUP E93C22001200004

Admission requirements: Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

Selection Procedure (for all the selection procedures): The Course provides for two selection procedures depending on the type of places available. Candidates interested in more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

<u>In addition to the provisions of the art. 3 of this application procedure, candidates may submit</u> the following documents:

- 1) self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), with a list of exams taken and grades achieved, in the case of candidates who have not yet completed the final graduation exam, must be presented the list of the examinations and the votes given;
- 2) curriculum vitae of research and teaching activities, written in Italian or English, indicating university degree qualifications obtained;
- 3) a summary of the master thesis, in Italian or English minimum of three and maximum of six pages organised under the following headings: thesis motivations, research methodology used, results obtained;
- 4) a brief statement of no less than two and no more than five pages written in English, outlining the candidate's motivation for attending the PhD Programme and a description of his/her research interests (Statement of Research Interest). The candidate must choose the research topic from those available on the Course website https://www.cds.unimore.it/tesi-di-ricerca/;
- 5) any certification attesting the knowledge of the English language (TOEFL, Proficiency or other):
- 6) certificate of passing the GRE (Graduate Record Examination) test, if any;
- 7) up to three letters of reference written by experts in the fields of research of the Course, with an indication of the public or private structure at which these experts work, which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call.

1) Selection procedure for a place with scholarship with topic "Smart and semiautomatic tools for optimisation and configuration of high-performance real-time embedded systems": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum vitae of studies and congruity of the exams taken and the topics of the dissertation respect to the PhD topics: from 0 to 20 points;
- Publications, conference presentations, patents: from 0 to 10 points;

- Statement of Research Interest and Proposal on the indicated topic, to assess motivation and aptitude for research, as well as the ability to understand the state of the art and research objectives and to structure a preliminary work project: from 0 to 25 points;
- Other qualifications (certification of proficiency in English, letters of introduction, study periods abroad, research grants or other collaborations with research groups, etc.): from 0 to 5 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 40/60 will be considered eligible.

2) Selection procedure for a place with scholarship with topic "Efficient blockchain integration on IoT devices": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum vitae of studies and congruity of the exams taken and the topics of the dissertation respect to the PhD topics: from 0 to 20 points;
- Publications, conference presentations, patents: from 0 to 10 points;
- Statement of Research Interest and Proposal on the indicated topic, to assess motivation and aptitude for research, as well as the ability to understand the state of the art and research objectives and to structure a preliminary work project: from 0 to 25 points;
- Other qualifications (certification of proficiency in English, letters of introduction, study periods abroad, research grants or other collaborations with research groups, etc.): from 0 to 5 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 40/60 will be considered eligible.

Areas of the PhD Programme:

Further informations are available on the PhD Programme website: http://www.cds.unimore.it

3) PhD Programme in "INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT)"

Places with scholarship:

- 1 with topic "Use of LoRaWAN and ultrawideband technologies for precise localization applications" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Embit S.r.l.). CUP E93C22001740004;
- 1 with topic "Analysis and development of electrified powertrains for sustainable off-highway vehicles" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Lombardini S.r.I.) CUP E93C22001740004;;

Admission requirements for selection procedures: Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

Selection Procedure (for both the selection procedures): The Course provides for two selection procedures depending on the type of places available. Candidates interested in

more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

<u>In addition to the provisions of the art. 3 of this application procedure, candidates have to submit the following documents:</u>

- 1) self-certification of the degree (or degree certificate in the case of a degree obtained abroad) showing the list of examinations taken and grades obtained; in the case of candidates who have not yet taken their final degree examination, the list of examinations taken and grades obtained must be presented;
- 2) curriculum vitae of research and teaching activities, written in Italian or English, indicating university degree qualifications obtained;
- 3) a summary of the master thesis, in Italian or English minimum of three and maximum of six pages organised under the following headings: motivations, research methodology used, results obtained, in the case of candidates who have not yet graduated, a written presentation of the thesis that will be discussed;
- 4) a brief statement of no more than two pages written in English, outlining the candidate's motivation for attending the PhD Programme (Motivation) and a description of his/her research interests (Statement of Research Interest). The candidate should express a maximum of two preferences among the research topics available on the Course website http://www.ict.unimore.it/ 'Research Topics';
- 5) certification of English language skills (TOEFL, Proficiency or others) if possessed;
- 7) certificate of passing the GRE (Graduate Record Examination) test, if any;
- 7) up to three letters of reference which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call.

1) Selection procedure for a place with scholarship with topic "Use of LoRaWAN and ultrawideband technologies for precise localization applications": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum vitae including research and teaching activities, and description of motivation (Motivation) and research interests (Statement of Research Interest): 0 to 35 points,
- Exams taken and grades achieved: from 0 to 15 points.
- Publications: from 0 to 5 points,
- Other qualifications: from 0 to 5 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 40/60 will be considered eligible.

2) Selection procedure for a place with scholarship with topic "Analysis and development of electrified powertrains for sustainable off-highway vehicles": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum vitae including research and teaching activities, and description of motivation (Motivation) and research interests (Statement of Research Interest): 0 to 35 points,
- Exams taken and grades achieved: from 0 to 15 points,
- Publications: from 0 to 5 points,
- Other qualifications: from 0 to 5 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 40/60 will be considered eligible.

Areas of the PhD Programme: The Doctorate offers three curricula: 1) Computer engineering and Science; 2) Electronics and Telecommunications; 3) Industrial Applications of ICT). The topics of the ICT Doctorate concern the disciplines of Computer Engineering and Science, Electronics, Electronic Measurements, Telecommunications, Electromagnetic Fields, Control Theory and Automation and Electrical Engineering, as well as industrial applications of the aforementioned disciplines in the strategic priority areas defined by the Horizon Europe programs, the National Research Program and the National Recovery and Resilience Plan (PNRR).

The Teaching Committee may propose to one or more students enrolled, considerated suitable, a programme of study and research in collaboration with the Federal University of Technology – Paraná (Brasil) that will result in the achievement also of the title of Brazilian PhD in "Doctor in Electrical and computer engineering", or a study and research path in collaboration with the University of Nottingham (United Kingdom) which will also lead to the achievement of the title of English PhD in "Engineering PhD", or a study and research path in collaboration with the Technische Universität Wien (Austria) which will also lead to the achievement of the title of Austrian PhD as "Doktor der Technischen Wissenschaften" or "Doktor der Naturwissenschaften".

Official course language: English. However, all the PhD students are encouraged to learn the Italian language during the course of study.

Further information is available from the PhD Programme website at: http://www.ict.unimore.it/ (entry "Research Topics").

The Course is inside del Doctoral School in "E4E (Engineering for Economics – Economics for Engineering)".

4) PhD Programme in "INDUSTRIAL INNOVATION ENGINEERING" (Main centre: Reggio Emilia)

Places with scholarship:

- 1* with topic "Numerical and experimental research activity for the kinematic characterization of both planar and 3D sheet metal working centers" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Eusatomotion S.p.A.)
- 1* with topic "Characterization and simulation of sand-casting processes aimed at the cost-green-quality driven design and optimization of cast iron components" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Ironcatings S.p.A)
- 1* with topic "Design and management of supply chains, by means of digital solutions" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Makeitalia S.r.l.)

*CUP for scholarships with PNRR DM352/2022 funds: E83C22004590004

The Course provides for three selection procedures depending on the type of places available. Candidates interested in more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

Admission requirements (for all selection procedures): Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

Selection Procedure (for all selection procedures): In addition to the provisions of the art. 3 of this application procedure, candidates may present additional documents:

- 1) self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), with a list of exams taken and grades achieved;
- 2) curriculum vitae of research and teaching activities, written in Italian or English, indicating university degree qualifications obtained;
- 3) a summary of the master thesis, or equivalent, in Italian or English minimum of three and maximum of six pages organised under the following headings: thesis motivations, research methodology used, results obtained;
- 4) a brief statement of no more than two pages written in English, outlining the candidate's motivation for attending the PhD Programme and a description of his/her specific areas of research interest (Statement of Research Interest).
- 5) certification attesting the knowledge of the English language (TOEFL, Proficiency or other);
- 6) certificate of passing the GRE (Graduate Record Examination) test, if any;
- 7) reference/recommendation letters (between one and three) written by experts in the fields of research of the PhD Programme, indicating the public or private institution/organization he/she is affiliated with, which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call.

1) Selection procedure for a place with scholarship with topic "Numerical and experimental research activity for the kinematic characterization of both planar and 3D sheet metal working centers": based on academic and research record Methods of evaluation:

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum: from 0 to 15 points,
- Publications: from 0 to 5 points,
- Grades of the exams, including the final degree: from 0 to 10 points,
- Motivation for attending the PhD Programme and research project: from 0 to 25 points,
- Other qualifications: from 0 to 5 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 30/60 will be considered eligible.

2) Selection procedure for a place with scholarship with topic "Characterization and simulation of sand-casting processes aimed at the cost-green-quality driven design and optimization of cast iron components": based on academic and research record Methods of evaluation:

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum: from 0 to 15 points,

- Publications: from 0 to 5 points,
- Grades of the exams, including the final degree: from 0 to 10 points,
- Motivation for attending the PhD Programme and research project: from 0 to 25 points,
- Other qualifications: from 0 to 5 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 30/60 will be considered eligible.

3) Selection procedure for a place with scholarship with topic "Design and management of supply chains, by means of digital solutions": based on academic and research record

Methods of evaluation:

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum: from 0 to 15 points,
- Publications: from 0 to 5 points,
- Grades of the exams, including the final degree: from 0 to 10 points,
- Motivation for attending the PhD Programme and research project: from 0 to 25 points,
- Other qualifications: from 0 to 5 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 30/60 will be considered eligible.

Areas of the PhD Programme: The Ph.D. course in Innovation Industrial Engineering consists of two different curricula: Engineering Management, Mechatronics and Energy Engineering. All two curricula share a strong orientation toward innovation processes.

The Teaching Committee may propose to one or more students enrolled, considerated suitable, a programme of study and research in collaboration with the Federal University of Viçosa (Brasile) that will result in the achievement also of the title of Brazilian PhD in "Computer Science".

Official course language: English. However, all the PhD students are encouraged to learn the Italian language during the course of study.

Further information is available from the PhD Programme website at: www.iii.unimore.it The Course is inside the Doctoral School in "E4E (Engineering for Economics – Economics for Engineering)".

5) PhD Programme "Enzo Ferrari" in INDUSTRIAL AND ENVIRONMENTAL ENGINEERING"

Places with scholarship:

- 1* with topic "High performance electric motors even rare earths free: applications for sustainable mobility" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Astra Research S.r.I);
- 1* with topic "Thermal optimization of a new generation of electrified power units" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Automobili Lamborghini S.p.A.);
- 1* with topic "Technical standards as tools for international development of ceramic products on sustainable basis" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Centro Ceramico);

- 1* with topic "Development and validation of numerical models and virtual methodologies for the evaluation and improvement of the efficiency and of the dynamic performance of positive displacement hydrostatic units" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Dana Motion System Italia S.r.l.);
- 1* with topic "Analysis of complex industrial systems in order to promote circular economy projects in the reuse of specific categories of industrial waste" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Ri.Circola S.r.I);
- **CUP for scholarships with PNRR DM352/2022 funds: E93C22001770004.

The Course provides for five selection procedures depending on the type of places available. Candidates interested in more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

In addition to the provisions of the art. 3 of this application procedure, candidates are required to submit the following additional documents:

- 1) list of exams taken, inclusive of related credits and grades;
- 2) self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), in both cases the final mark for the degree must be clearly indicated, as well as the maximum mark envisaged for this qualification by the University awarding the degree;
- 3) curriculum vitae written in Italian or English indicating higher education qualifications;
- 4) a summary of final thesis in Italian or English, or equivalent minimum of three and maximum of six pages organised under the following headings: thesis motivations, research methodology used, results obtained;
- 5) a short essay written in English no longer than two pages which illustrates the reasons why the candidate wishes to attend the PhD Programme and describes his/her specific research interests (Statement of Research Interest);
- 6) any certification attesting to knowledge of the English language (TOEFL, Proficiency or other);
- 7) certificate of passing the GRE (Graduate Record Examination) test, if any;
- 8) any recommendation/reference letters (maximum three) written by experts in the field of research of the PhD Programme, which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call.

Admission requirements (for all selection procedures): Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

1) Selection procedure for a place with scholarship with topic "High performance electric motors even rare earths free: applications for sustainable mobility": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum and relevance to the topics of the PhD Programme: from 0 to 25 points,
- Master Thesis (topic and grade): from 0 to 25 points,
- Candidate motivation (Statement of Research Interest), from 0 to 5 points;
- Publications, other qualifications and various attestations: from 0 to 5 points,

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 36/60 will be considered eligible.

2) Selection procedure for a place with scholarship with topic "Thermal optimization of a new generation of electrified power units": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum and relevance to the topics of the PhD Programme: from 0 to 25 points,
- Master Thesis (topic and grade): from 0 to 25 points,
- Candidate motivation (Statement of Research Interest), from 0 to 5 points;
- Publications, other qualifications and various attestations: from 0 to 5 points,

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 36/60 will be considered eligible.

3) Selection procedure for a place with scholarship with topic "Technical standards as tools for international development of ceramic products on sustainable basis": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum and relevance to the topics of the PhD Programme: from 0 to 25 points,
- Master Thesis (topic and grade): from 0 to 25 points,
- Candidate motivation (Statement of Research Interest), from 0 to 5 points;
- Publications, other qualifications and various attestations: from 0 to 5 points,

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 36/60 will be considered eligible.

4) Selection procedure for a place with scholarship with topic "Development and validation of numerical models and virtual methodologies for the evaluation and improvement of the efficiency and of the dynamic performance of positive displacement hydrostatic units": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum and relevance to the topics of the PhD Programme: from 0 to 25 points,
- Master Thesis (topic and grade): from 0 to 25 points.
- Candidate motivation (Statement of Research Interest), from 0 to 5 points;
- Publications, other qualifications and various attestations: from 0 to 5 points,

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 36/60 will be considered eligible.

5) Selection procedure for a place with scholarship with topic "Analysis of complex industrial systems in order to promote circular economy projects in the reuse of specific categories of industrial waste": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum and relevance to the topics of the PhD Programme: from 0 to 25 points,
- Master Thesis (topic and grade): from 0 to 25 points,

- Candidate motivation (Statement of Research Interest), from 0 to 5 points;
- Publications, other qualifications and various attestations: from 0 to 5 points,

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 36/60 will be considered eligible.

Areas of the PhD Programme: The course deals with subjects on Mechanical and Vehicle Engineering, Civil and Environmental Engineering and Materials Engineering.

In the present Cycle, the Course is structured around three curricula: the first one is named "Industry 4.0", another is named "Vehicle Engineering", and the third one is named "Civil and Environmental Engineering".

These are the educational objectives, common to all PhD students: advanced training in the various areas of industrial and environmental engineering; education to the scientific and technological research; development of the attitude to international scientific cooperation; ability to interact with the industrial and economic district. More specifically, the issues considered fall within the specific areas listed below. The particular "Industry 4.0" curriculum characterizes the transversal nature of the issues that distinguish the E4E Doctoral School (Engineering for Economics – Economics for Engineering), of which this Course is part.

The Teaching Committee may propose to one or more students enrolled, considerated suitable, a programme of study and research in collaboration with the Chinese University of Fuzhou that will result in the achievement also of the title of Chinese PhD in "Doctor in Engineering" as well as with the Federal University of Technology del Paranà (Brazil) that will result in the achievement also of the Brazilian PhD title in "Doctor in Mechanical Engineering and Materials".

Official course language: English. However, all the PhD students are encouraged to learn the Italian language during the course of study.

Further information is available on the PhD Programme website at: http://www.phd-enzoferrari.unimore.it/site/home/research.html

The Course is inside the Doctoral School in "E4E (Engineering for Economics – Economics for Engineering)".

6) PhD Programme in "LABOUR, DEVELOPMENT AND INNOVATION"

Places with scholarship:

- 1 with topic "Gender budgeting and gender impact of public policies. Theoretical foundations, expenditure reclassification methodologies and applications to the State Budget" (with PNRR DM351/2022 funds, Mission 4, Component 1, Investment 4.1 "Public Administration", for research activities at Ministry of Economy and Finance and a research period abroad at the Interdisciplinary Center for Feminist, Women and Gender Studies (CINEF) e Gender Observatory (GEP&Do) University of Pablo de Olavide, Seville with the possibility of participating in the doctoral programme in international co-tutorship with the University Pablo de Olavide, Seville on the basis of the international co-tutorship agreement for doctoral studies between the two universities or at the WiSE Centre for Economic Justice Glasgow Caledonian University). CUP: E93C22001220006.
- 1 with topic "Development of a modern management control system for the design of public policies, impact analysis, sustainability assessment and improvement of the diagnostic capacity of Public Administrations" (with PNRR DM351/2022 funds, Mission 4, Component 1, Investment 4.1 "Public Administration", for research activities at the City of Modena and a research period at a research centre/university abroad). CUP: E93C22001220006.

- 1 with topic "Sustainable & data-driven HRM" (with PNRR DM351/2022 funds, Mission 4, Component 1, Investment 4.1 "Public Administration", for research activities at the Human Resources Development, Organisation and Service Communication Department of the Resources, Europe, Innovation and Institutions Directorate of the Emilia Romagna Region and abroad at the Department of Human Resource Management of the University of Twente). CUP: E93C22001220006.
- -1 with topic "Gender budgeting and ex-ante evaluation of public policies" (with PNRR DM351/2022 funds, Mission 4, Component 1, Investment 4.1 "Public Administration", for research activities at the Social, Inclusion and Equal Opportunities Policies Sector, General Directorate for Personal Care, Health and Welfare; Human Resources Development, Organisation and Service Communication Sector of the Resources, Europe, Innovation and Institutions Directorate of the Emilia Romagna Region and abroad at the Interdisciplinary Center for Feminist, Women and Gender Studies (CINEF) e Gender Observatory (GEP&Do) University of Pablo de Olavide, Seville with the possibility of participating in the doctoral programme in international co-tutorship with the University Pablo de Olavide, Seville on the basis of the international co-tutorship agreement for doctoral studies between the two universities or at the WiSE Centre for Economic Justice Glasgow Caledonian University). CUP: E93C22001220006.

Admission requirements: Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 270/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

Selection Procedure (for all the selection procedures): The Course provides for four selection procedures depending on the type of places available. Candidates interested in more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

For the purposes of assessment, candidates are required to submit as an attachment to the application form, a research project, written in Italian or English, relating to one of the research areas of the two curricula Programme into which the course is divided. Knowledge of English is required.

<u>In addition to the provisions of the art. 3 of this application procedure, candidates are</u> required to submit the following additional documents:

- 1) self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), with a list of exams taken and grades achieved;
- 2) CV based on the form in *Annex B1* herewith, available on the website dedicated to the PhD Program in Labour, Development and Innovation:
- https://www.phdlavorosviluppoinnovazione.unimore.it/en/homepage-english/;
- 3) copy of the research project outline, written in Italian or English. This outline should be no more than 15,000 typed characters, including blank spaces, written in accordance with the form in *Annex C1* herewith, dedicated to the PhD Program in Labour, Development and Innovation: https://www.phdlavorosviluppoinnovazione.unimore.it/en/homepage-english/.
- 4) presentation/reference letter signed by one academic or researcher or expert in the field of the research topics included in the PhD programme, or other professional in the field of the research topics included in the PhD programme, which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call;
- 5) any academic publications along with a list of these publications.

1) Selection procedure for a place with scholarship with topic "Gender budgeting and gender impact of public policies. Theoretical foundations, expenditure reclassification methodologies and applications to the State Budget": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Degree final mark, if already achieved, and grades reported in exams: from 0 to 16 points
- Publications: from 0 to 3 points,
- Research project: from 0 to 30 points,
- Postgraduate and/or professional teaching and training in the research field, as included in the CV: from 0 to 5 points,
- Foreign language skills in the CV: from 0 to 6 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 35/60 will be considered eligible.

2) Selection procedure for a place with scholarship with topic "Development of a modern management control system for the design of public policies, impact analysis, sustainability assessment and improvement of the diagnostic capacity of Public Administrations": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Degree final mark, if already achieved, and grades reported in exams: from 0 to 16 points
- Publications: from 0 to 3 points,
- Research project: from 0 to 30 points,
- Postgraduate and/or professional teaching and training in the research field, as included in the CV: from 0 to 5 points,
- Foreign language skills in the CV: from 0 to 6 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 35/60 will be considered eligible.

3) Selection procedure for a place with scholarship with topic "Sustainable & data-driven HRM": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Degree final mark, if already achieved, and grades reported in exams: from 0 to 16 points
- Publications: from 0 to 3 points,
- Research project: from 0 to 30 points,
- Postgraduate and/or professional teaching and training in the research field, as included in the CV: from 0 to 5 points,
- Foreign language skills in the CV: from 0 to 6 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 35/60 will be considered eligible.

4) Selection procedure for a place with scholarship with topic "Gender budgeting and ex-ante evaluation of public policies": based on academic and research record

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Degree final mark, if already achieved, and grades reported in exams: from 0 to 16 points

- Publications: from 0 to 3 points,
- Research project: from 0 to 30 points,
- Postgraduate and/or professional teaching and training in the research field, as included in the CV: from 0 to 5 points,
- Foreign language skills in the CV: from 0 to 6 points.

Terminata la valutazione dei titoli, la Commissione compila una graduatoria di merito sulla base dei punteggi assegnati ai candidati. Vengono ritenuti idonei i candidati che, nella valutazione dei titoli, hanno ottenuto un punteggio minimo di 35/60.

Areas of the PhD Programme: The course consists of two curricula: Labour, Development and Innovation, and Industry 4.0.

The Labour, Development and Innovation curriculum is intended to enable the participants to acquire an in-depth understanding of employment relations and socio-economic change in an interdisciplinary perspective, focusing on the main regulatory levels (law, management, economics and organisation) and related methods of analysis in order to develop research instruments addressing both legal and non-legal labour regulation, enterprise innovation (industrial, service, public) and economic and territorial development. Industry 4.0 is intended to contribute to an understanding of the dynamics of digital transformation and elaboration of the legal, economic and financial, organisational and managerial instruments to govern the transformation of the enterprise and organisations in light of Industry 4.0. The teaching and research programme favours the datafication of employment and production processes associated with digitalisation resulting in a significant transformation of the logic and instruments of enterprise management.

Coordination with the E4E School and courses "Enzo Ferrari" of Industrial and Environmental Engineering, in Industrial Innovation Engineering and in Information and Communication Technologies (ICT) will enhance the interdisciplinary approach since the teaching activities related to the main technologies and technological trajectories of Industry 4.0.

Both curricula investigate the following research areas:

- Transformation of work, innovation and business models;
- Autonomy, discretion and performance appraisal in the digital enterprise;
- Engineering economics, sustainable finance and financial innovation;
- Corporate sustainability;
- Health, safety, disability, work and care;
- Gender equality: theories, measurement, policies and reporting tools;
- Certification of contracts ex art. 75 ff. Legislative Decree 276/2003;
- Personal data protection, Artificial Intelligence, Regulation of digital markets;
- Socioeconomic impact of exogenous shocks and recovery strategies:
- Composite Indicators, Machine Learning and Big Data;
- Iconographies of work.

Official languages: Italian and English. Please refer to the educational programme of the course for details on the languages used in each course:

https://www.phdlavorosviluppoinnovazione.unimore.it/en/homepage-english/

Both curricula and research areas can be found in the web site:

https://www.phdlavorosviluppoinnovazione.unimore.it/en/homepage-english/

7) PhD Programme in "PHYSICS AND NANO SCIENCES"

Places with scholarship:

- 1 with topic "Design and Functionality of Advanced Hollow Fiber Membrane" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Medica S.p.A.). CUP E93C22001780004;
- 1 with topic "Technologies for energy storage: new opportunities offered by nanotechnologies" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at Opus Automazione S.p.A.). CUP E93C22001780004

Admission requirements: Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

Selection procedures (for both selection procedures): The Course provides for two selection procedures depending on the type of places available. Candidates interested in more than one selection procedure must submit an application and pay the relevant fee of € 25.00 for each procedure in which they wish to participate.

The selections are intended to verify the candidate's preparation and aptitude to carry out research activities related to the topics of the PhD Course.

<u>In addition to the provisions of the art. 3 of this application procedure, candidates may submit</u> the following additional documents:

- 1a) Self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), with a list of exams taken and grades achieved; students who have not yet completed the final degree examination, must submit a list of exams taken and grades achieved;
- 1b) List of research and teaching activities (curriculum vitae) indicating all the qualifications obtained. This can be written either in Italian or in English;
- 1c) A summary of the thesis/diploma work, from a minimum of three to a maximum of six pages, with the following headings: state of the art and interests of the topic, research methodology and results. This summary can be written either in Italian or in English;
- 1d) certificates of knowledge of English language (TOEFL, Proficiency or others); certificate of Graduate Record Examination (GRE);
- 2) Letters of presentation (one to three) written by experts in the fields of this PhD course, indicating the public or private institution in which they serve as experts, which must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of the this Call;
- 3) Statement of Research Interest: a short text, of no more than two pages and written in English, consisting of two parts:
- Motivation, which illustrates the candidate's motivations for attending the Course (max 1/2 page)
- Description of a short research project divided into introduction, state of the art, and possible lines of development based on the specific research topic of the fellowship.

1) Selection procedure for a place with scholarship with topic: "Design and Functionality of Advanced Hollow Fiber Membrane": based on academic and research record

For the evaluation, the Board of Examiners, based on a comparative assessment of the documents submitted by the candidates, assigns a score up to a maximum of 60 points, according to the following criteria:

- 1) Previous experience of the candidate, up to a maximum of 30 points awarded considering:
- Curriculum studiorum, indicating the examinations passed during the previous courses (evaluation criteria: score of the final degree –if already achieved-, list of exams taken and grades received, degree of relevance of previous studies to this PhD course).
- List of activities (experiences and activities of internship, job opportunities, scholarships, grants, publications, training periods abroad, participation to Summer Schools and conferences).
- Summary of the thesis/diploma work-completed or in progress- (evaluation criteria: motivations and state of the art of the field, methods of investigation, results obtained).
- Knowledge of the English Language (documented by exams and certificates).
- 2) Independent evaluation of the potentialities of the candidate, up to a maximum of 10 points. To evaluate this, the following will be considered: one to three letters of recommendation from experts who have had the opportunity to assess the candidate in research. Prizes and awards given to the candidate by external commissions. The letters of recommendation must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call.
- 3) Evaluation of the Statement of Research Interest: The commission, based on this text, will evaluate the technical and scientific motivations and specific research interests of the candidate as well as their potentialities for the development of the PhD programme. Up to a maximum of 20 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 40/60 will be considered eligible.

2) Selection procedure for a place with scholarship with topic: "Technologies for energy storage: new opportunities offered by nanotechnologies": based on academic and research record

For the evaluation, the Board of Examiners, based on a comparative assessment of the documents submitted by the candidates, assigns a score up to a maximum of 60 points, according to the following criteria:

- 1) Previous experience of the candidate, up to a maximum of 30 points awarded considering:
- Curriculum studiorum, indicating the examinations passed during the previous courses (evaluation criteria: score of the final degree –if already achieved-, list of exams taken and grades received, degree of relevance of previous studies to this PhD course).
- List of activities (experiences and activities of internship, job opportunities, scholarships, grants, publications, training periods abroad, participation to Summer Schools and conferences).
- Summary of the thesis/diploma work-completed or in progress- (evaluation criteria: motivations and state of the art of the field, methods of investigation, results obtained).
- Knowledge of the English Language (documented by exams and certificates).
- 2) Independent evaluation of the potentialities of the candidate, up to a maximum of 10 points. To evaluate this, the following will be considered: one to three letters of recommendation from experts who have had the opportunity to assess the candidate in research. Prizes and awards given to the candidate by external commissions. The letters of recommendation must be produced directly by the referents and exclusively according to the procedure indicated in art. 3 of this Call.
- 3) Evaluation of the Statement of Research Interest: The commission, based on this text, will evaluate the technical and scientific motivations and specific research interests of the candidate as well as their potentialities for the development of the PhD programme. Up to a maximum of 20 points.

Once the qualifications have been assessed, the Selection committee will compile a merit-based ranking of candidates based on the scores awarded. Candidates obtaining a minimum score of 40/60 will be considered eligible.

Areas of the PhD Programme: Main topics include: quantum sciences and technologies; nanofabrication, microscopy and spectroscopy; nano-systems for energy conversion; nanostructured, low-dimensional, graphene and 2D systems functional surfaces and molecules; physics and chemistry of bio-nano systems; nano-scale tribology; advanced computational theory and methods for materials and nanosystems; fields and strings theory. Further information is available from the PhD-PNS website at: http://www.nano-phdschool.unimore.it/site/home/topics/.

Official course language: English. However, all the PhD students are encouraged to learn the Italian language during the PhD Course.

8) PhD Programme in "FOOD AND AGRICULTURAL SCIENCE, TECHNOLOGY AND BIOTECHNOLOGY" (Main centre: Reggio Emilia)

Places with scholarship:

- 1 with topic "Development of new brewing yeast cultures and strain authentication procedures to improve beer quality and sustainability (TRUE-YEAST)" (with PNRR DM352/2022 funds, Mission 4, Component 2, Investment 3.3 for research activities at AEB S.p.A.) CUP: E93C22001790004

Admission requirements: Italian second level degree (laurea specialistica, under D.M. 509/99 or laurea magistrale, under D.M. 207/04) or Italian degree obtained prior to D.M. 509/99 or equivalent qualification obtained abroad, in accordance with the provisions in art. 2 of this application procedure.

Selection procedure: based on academic and research record

The selection is intended to verify the candidate's preparation and aptitude to carry out research activities related to the above-mentioned topic.

<u>In addition to the provisions of the art. 3 of this application procedure, candidates may submit</u> the following additional documents:

- 1) self-certification to prove that the degree has been conferred (if awarded by an Italian university), or Degree certificate (if awarded by a foreign university), with a list of exams taken and grades achieved.
- 2) curriculum vitae of research and teaching activities, indicating clearly and concisely what candidate has studied, skills acquired (languages, knowledge of computers, use of complex instrumentation, etc.) including any official certifications he/she may have. It must be written in English language using the template reported in *annex B2* and must include the exact name and nature of degrees possessed, publications, if applicable, and contributions to conferences/congresses:
- 3) a summary of MsC thesis in Italian or English, or equivalent with length between 3000 and 5000 characters (including spaces) organised under the following headings: statement of purpose, research methodology used, obtained results;
- 4) a Statement of Research Interest, written in English language using the template reported in *annex C2* and referring to the instructions contained therein, which illustrates the reasons why the candidate wishes to attend the PhD Programme, and describes her/his specific research interests, in relation to the Research Topics of the XXXVIII cycle of the PhD

Programme (available from the PhD Programme website at: http://www.steba.unimore.it/ under "Research topics").

5) any letters of presentation/reference drawn up by experts in the fields of research of the Course, indicating the public or private structure at which such experts work, which must be produced directly by the referees and exclusively according to the procedure indicated in art. 3 of the Call.

The Selection Committee has the capacity to assign scores up to a total of 60 points in the evaluation of candidate qualifications, as follows:

- Curriculum: from 0 to 30 points,
- Master thesis: from 0 to 15 points,
- Publications: from 0 to 5 points,
- Other qualifications: from 0 to 10 points.

Once the qualifications have been assessed, the Committee will compile a merit-based ranking of candidates based on the scores awarded.

Candidates obtaining a minimum score of 40/60 will be considered eligible.

Areas of the PhD Programme: The PhD program deals with the production, processing, quality and safety of raw materials and of food.

Official course language: English. However, all the PhD students are encouraged to learn the Italian language during the course of study.

Further information is available on the website of the PhD course at: http://www.steba.unimore.it

Modena, September 21st, 2022

THE RECTOR (Prof. Carlo Adolfo Porro)

Annex A1 (for candidates holding degrees awarded in Italy only)

Self-certification as substitute for attested declarations under articles 46 and 47, Presidential decree 445/2000

WARNING

The following self-certification complies with the dispositions of Presidential decree 445 of the 28th December 2000: "LEGISLATIVE DISPOSITIONS AND RULES FOR ADMINISTRATIVE FORMS". In particular:

- Details provided by candidates have to be considered as substitute for attested declaration under articles 46-47; following article 76 candidates who provide mendacious information can incur in administrative and criminal penalties.
- Following article 39 the self-certification does not require official stamps.

Family name

□ Italian degree (prior to D.M. 509/1999) in

- Under articles 71 and 72 the relevant University office will verify the information provided.
- The information requested in this self-certification follow article 16 is strictly necessary for the selection procedures and will be kept confidential following the Legislative decree 196 of the 30th June 2003 on personal data protection.

DEGREE DESCRIPTION

Italian second level degree "laurea magistrale" (under D.M. 270/04) or Italian second level degree "laurea specialistica" (under D.M. 509/1999) or Italian degree (prior to D.M. 509/1999)

Aware of the provisions on criminal consequences for false declarations, under art. 76 of Presidential decree 445/2000 the undersigned

Given name
Place of birth
Date of birth (dd/mm/yyyy)
Citizenship
E-mail for correspondence
DECLARES TO HOLD THE FOLLOWING DEGREE CERTIFICATE
Degree awarded (or to be awarded) (Tick only one of the three options)
□ Italian second level degree "Laurea magistrale" (under D.M. 270/04) in
Degree class of
□ Italian second level degree "Laurea specialistica" (under D.M. 509/1999) in
Degree class of

Degree awarded (or to be awarded) by the University of
Degree awarded on (dd/mm/yyyy)
Final mark
AND DECLARES
that, in accordance with articles 46 and 47 of Presidential decree 445/2000, the information included
in all the copies attached to the admission form is correct.
Date and place
Signature (legible and in full)

Annex A2 (for candidates holding foreign degrees only)

Self-certification as substitute for attested declarations under articles 46 and 47, Presidential decree 445/2000

WARNING

The following self-certification complies with the dispositions of Presidential decree 445 of the 28th December 2000: "LEGISLATIVE DISPOSITIONS AND RULES FOR ADMINISTRATIVE FORMS". In particular:

- Details provided by candidates have to be considered as substitute for attested declaration under articles 46-47; following article 76 candidates who provide mendacious information can incur in administrative and criminal penalties.
- Following article 39 the self-certification does not require official stamps.
- Under articles 71 and 72 the relevant University office will verify the information provided.
- The information requested in this self-certification follow article 16 is strictly necessary for the selection procedures and will be kept confidential following the Legislative decree 196 of the 30th June 2003 on personal data protection.

DESCRIPTION OF THE QUALIFICATION (Degree, Master of Science or equivalent)

INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

Family name
Given name
Place of birth
Date of birth (dd/mm/yyyy)
Citizenship
E-mail for correspondence
INFORMATION IDENTIFYING THE QUALIFICATION
Level of Qualification (Degree, Master of Science or other)
Qualification in
Qualification awarded (or to be awarded) at the University of
Qualification awarded on (dd/mm/yyyy)
Final degree mark /grade
Main Field(s) of Study for the Qualification
Language(s) of Instruction/Examination
Official Length of Programme (years)
Access Requirement(s) to Programme

INFORMATION ON THE EXAMINATIONS AND RESULTS GAINED FOR THE QUALIFICATION (Examination and individual grades/marks/credits obtained)

DATE	EXAMINATION	GRADE	MARK	CREDITS
				OBTAINED
INFORMAT QUALIFICA	ION ON THE FUNCTION OF TION WAS AWARDED	THE QUALIFICATION IN TH	HE COUNTR	Y WHERE THE
	hD programmes? (Tick only o	•	ou, oriabio a	pphoduorito
□ Yes	□ No			
ADDITIONA	AL DECLARATION			
	ce with articles 46 and 47 of P is attached to the admission fo		the informat	ion included in
Date and pla	ace			
Signature (le	egible and in full)			

Annex B1 (Facsimile to be used only for applications to the PhD Programme in Labour, development and innovation).

CURRICULUM VITAE

for the purposes of the application for enrolment on the Doctoral Research Programme (XXXVIII cycle)

PERSONAL DATA
Name and surname
Date of birth
Nationality
Address
Telephone number and e-mail
EDUCATION
Period
Institution
Country where the qualification was awarded
Qualification awarded
Final mark
WORK EXPERIENCE
Period
Type of employment
Sector
Employment grade and duties
PARTICIPATION IN RESEARCH PROJECTS
Period
Title of the project
Disciplinary area
Tasks performed as part of the project

LANGUAGE SKILLS (Specify for each language the level of knowledge on the basis of the following
scale, as laid down in the Common European Framework of the Council of Europe. Reference should
also be made to any certification awarded to the candidate, such as TOEFL, etc.)
LANGUAGE
A1 (BEGINNER)
A2 (ELEMENTARY)
B1 (PRE INTERMEDIATE)
B2 (Post Intermediate)
C1 (ADVANCED)
C2 (PROFICIENCY)
ANALYTICAL SKILLS (Please specify, where applicable, analytical skills in relation to the research
activity: statistical software, informatic instruments or database)
LIST OF PUBLICATIONS (WHERE APPLICABLE)
Date and place
Signature

ANNEX B2 (to be used only for applications to the PhD Programme in Food and agricultural science, technology and biotechnology)

CURRICULUM VITAE

PERSONAL INFORMATION Replace with First name(s) Surname(s)

[All CV headings are optional. Remove any empty headings.]

Replace with house number, street name, city, postcode, country

Replace with telephone number 🗎 Replace with mobile number

State e-mail address

State personal website(s)

Date of birth: dd/mm/yyyy | Nationality: Enter nationality/-ies

EDUCATION AND TRAINING

Replace with dates (from dd/mm/yy– to dd/mm/yy) [Add separate entries for each course. Start from the most recent.]

RESEARCH EXPERIENCE

[Remove any headings left empty.]

Replace with dates (from dd/mm/yy– to dd/mm/yy)

[Add separate entries for each experience. Start from the most recent]
Replace with occupation or position held (e.g., research grant, research scholarship......)

Replace with University or Research Centre name and locality (if relevant, full address and

website):

Replace with main activities (max 200 characters)

TEACHING EXPERIENCE

Replace with dates (from dd/mm/yy– to dd/mm/yy) [Remove any headings left empty.]

[Add separate entries for each experience. Start from the most recent] e.g mentorship, teaching, seminars (specifying place, institution)

WORK EXPERIENCE

[Remove any headings left empty.]

Replace with dates (from dd/mm/yy– to dd/mm/yy)

[FILL WITH OTHER WORK EXPERIENCE (IF ANY)]

[Add separate entries for each experience. Start from the most recent]

Replace with occupation or position held

Replace with employer's name and locality (if relevant, full address and website)

• Replace with main activities and responsibilities (max 200 characters)

PERSONAL SKILLS

Mother tongue(s) Replace with mother tongue(s)

Other language(s)	UNDERSTANDING SPEAKING			WRITING	
	Listening	Reading	Spoken interaction	Spoken production	

Replace with language Enter level Enter level Enter level Enter level Enter level

Replace with language

Replace with name of language certificate (if any). Enter level if known.

Enter level Enter level Enter level Enter level Enter level

Replace with name of language certificate (if any). Enter level if known.

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient

user

Common European Framework of Reference for Languages

Communication skills

Replace with your communication skills. Specify in what context they were acquired. Example:

• good communication skills gained through my experience as sales manager

Organisational / managerial skills

Replace with your organisational / managerial skills. Specify in what context they were acquired. Example:

• leadership (currently responsible for a team of 10 people)

Digital skills

SELF-ASSESSMENT

Word processors	Spreadsheet	Presentation software	Statistical software (specify)	Image editing	Programming languages (specify)
Enter level	Enter level	Enter level	Enter level	Enter level	Enter level

Levels: Basic user - Independent user - Proficient user

Digital competences - Self-assessment grid

Indicate below ICT-certificates (if any)

Replace with your other computer skills. Specify in what context they were acquired.

ADDITIONAL INFORMATION

[List relevant publications, presentations, conferences/seminars, honours and awards, memberships, other certifications (if any). Remove headings not relevant in the left column. Please, indicate for each publications the DOI code or any relevant information to find them on web. In absence of this information, the candidate can add the relevant files as annexes.]

Publications
Oral presentations
Poster presentations
Participation to
Conferences/seminars
Honours and awards
Memberships
Other certifications

Annex C1 (Facsimile to be used only for applications to the PhD Programme in Labour, development and innovation).

RESEARCH PROJECT

Submitted for the purposes of the application for enrolment on the Doctoral Research Programme (XXXVIII cycle) by

(XXXVIII cycle) by
Name and surname
Title of the project
Curriculum (not binding choice; please mark the preferred option)
□ Labour, development and innovation □ Industry 4.0
Research Areas: (not binding choice; please mark the preferred option) Transformation of work, innovation and business models Autonomy, discretion and performance appraisal in digital enterprise; Engineering economics, sustainable finance and financial innovation; Corporate sustainability; Health, safety, disability, work and care; Gender equality: theories, measurement, policies and reporting tools; Personal data protection, Artificial Intelligence, Regulation of digital markets; Socioeconomic Impact of exogenous shocks and recovery strategies Composite indicators, Machine learning and Big data Iconographies of work Other (specify)
Abstract (Summarise in no more than 10 lines the content and objectives of the project):

Background and goals (please explain the theoretical framework, the investigated problems and the goals of the project) (Maximum 10.000 characters):

Methodology and intermediate stages of the research Please, specify (where applicable) analytical skills used in relation to the research activity (for example: statistical software, informatic instruments o database) (Maximum 5.000 characters):
(Maximam e.eee charactere).

Essential bibliography (Minimum 10 publications):
Date and place

Signature

ANNEX C2 (to be used only for applications to the PhD Programme in Food and agricultural science, technology and biotechnology)

STATEMENT OF RESEARCH INTEREST

Candidate: name/surname

In case of multiple research topics, please duplicate the table below

Title of the Research Topic	
Description of the specific research interest	(max 3000 characters including spaces) Please illustrate the reasons why you wish to attend the PhD Programme and describe your specific research interests related to the Research Topic. Previous studies and experiences on the specific topic may be indicated.

ANNEX D

Form "Self-certification of subscription to Gestione Separata Inps"

То

Payroll Office – Finance Directorate Università degli Studi di Modena e Reggio Emilia Via Università, 4 - 41121 Modena

E-mail: ufficiostipendi@unimore.it

Autocertificazione di iscrizione alla Gestione Separata Inps di cui all'art. 2, comma 26, L. 335/1995

(resa ai sensi del D.P.R. 28 dicembre 2000, n.445 e s.m.i.)

Il sottoscritto				
natoa	il			
Codice Fiscale				
Titolar	e di (barrare la relativa opzione):			
☐ Assegno di ricerca	☐ Collaborazione coordinata e continuativa			
☐ Dottorato di ricerca	☐ Docenza a contratto			
☐ Borsa di Specializzazione Medica	☐ Prestazione d'opera occasionale (redditi > € 5.000,00)			
	DICHIARA:			
di essere iscritto alla data odierna ed in se alla Gestione Separata Inps*:	eguito a conferma INPS, o che provvederà nei termini all'iscrizione			
	MINIMA" in quanto iscritto presso la seguente cassa			
☐ "CASSA UNICA - aliquota pensionistica obbligatoria	MASSIMA" in quanto non iscritto presso alcuna cassa			
	S, da effettuarsi in via telematica entro la fine del primo mese di del percettore. UniMoRe declina ogni responsabilità connessa alla			
	FIRMA			
	nsapevole delle sanzioni penali, nel caso di dichiarazioni mendaci, de dall'art. 495 del C.P. e si impegna a comunicare, prima della lifica di quanto dichiarato.			
Modena,	FIRMA			
Si allega alla presente fotocopia del do sanitaria o tessera codice fiscale	ocumento di identità del sottoscrittore e, possibilmente, tessera			

¹ Dall'anno 2016: 24,00%. Iscrizione che presuppone il versamento di contributi previdenziali ad altra cassa pensionistica obbligatoria, quali, ad esempio: Inps gestione dipendenti, artigiani, commercianti, Casse e Ordini professionali.

² Dall'anno 2022: 35,03%.

ANNEX E (Part 1) - Form "Accompanying declaration for scholarship holders"

DECLARATION TO BE ATTACHED FOR PhD STUDENTS HOLDING SCHOLARSHIPS IN THE PROCEDURE FOR APPLICATION FOR ENROLMENT ON A PhD PROGRAMME A. Y. 2022/2023, XXXVIII cycle

To be completed only by holders of scholarships

I, the undersigned Surname	First name
with the exception of grants awarded b study abroad, the grant holder's training	HAT: lates cannot be accumulated with any other study grants, regardless of their title, y national or foreign institutions which are available to support, with periods of cor research activities (art. 6, para 1, of Law 30.11.1989, n. 398); a grant cannot hold a second grant with the same title (art. 6, para 2, of Law
c) art. 1, sub-para a), of Law 315/98 s Education and Research) is required to regulations laid down by art 2, para 26 amended (compulsory general insurance d) state employees who hold grants to	tates that, from the date 01.01.99, the MIUR (Ministry for Education, Further guarantee the application of study grants to pursue research doctorates as per the first part of Law No.335/95, and also art. 59, para 16, of Law No.449/97, as with INPS – Italian Social Security Institute); which this declaration relates may request special leave without pay for study No.476/1984 (art. 6, para 7, Law 398/89).
I, the undersigned, in accordance with a in the event of a false declaration, DECLARE	rticles 46 and 47 of D.P.R. No.445 of 28.12.2000, aware of the liability incurred
a) not to hold , for the entire duration of grants awarded by national or foreign in holder's training or research activities (a	f the doctorate, other study grants of any title whatsoever, with the exception of a stitutions which are available to support, with periods of study abroad, the grant art. 6, para 1, of Law No.398 of 30.11.1989); ne year, another study grant to pursue postgraduate courses (art. 6, para 2, Law
c) not to hold a grant for collaboration d) to be aware of the rights and obligation	in a research activity under art. 51, para 6, Law 449/97 and D.M. II.02.1998 ons of graduates, as specified in the notices of competitions for admission to PhD 022/2023, published on the internet site of the University of Modena and Reggio
e) to have read and fully understood the	regulatory provisions governing research doctorates, as published on the internet
Regulation 2016/679 and Legislative De	ersonal data being held, including sensitive information, in accordance with EU cree No.196/2003, modified by Legislative Decree No. 101/2018, and to be aware University of Modena and Reggio Emilia.
transcript of records, together with its leg consular office of the country where the	cademic degree awarded abroad are reminded they have to submit their academic galized Italian translation and the "declaration of equal value" issued by the Italian te degree was awarded, if it is not already enclosed with the online application I verification issued by CIMEA as ENIC_NARIC centre, or Diploma supplement ean Union.
	h do not belong to the European Union must provide documentation certifying nd hospitalization, together with a valid residence permit.
Date	

Signature

DECLARATION ACCOMPANYING APPLICATION FOR ENROLMENT ON A PhD PROGRAMME A.Y. 2022/2023, XXXVIII

To be completed only by holders of scholarships

and 47 of D.P.R. No. 4	of the liability incurred in the 1445 of 28.12.2000, I the und	ersigned	claration, in accordance with articles 46	
	First name Acquired surname			
			on the	
Resident at (street)		No	Town/city	
Post code	Province/State/County		_ Tel	
MOBILE PHONE		E-mail		
Domiciled (if differen	t from above) at		No	
			nce/State/County	
characters: IT, 2 internumbers for the CAB Important note: to avoid and correctly. If in any Please note that any bear monies. I, the undersigned use through the website Separata" https://w. Servizio", or through the website Separata" https://w. Servizione alla Gestione Reggio Emilia, Via to the "INPS gestione to provide the affidave The payment of the gmonth. The related https://unimore.u-we In the event that facts undersigned undertake of Modena and Reggio Information in accordant The personal data contains.	holder — in this	International Bandational code letter (aracters for the curred aracters for the curred aracters for the above-in own bank. The bank transfer are to the bank transfer are	k Account Number consists of 27 (CIN), 5 numbers for the ABI code, 5 ent account number. Indicated fields must be completed fully the responsibility of the recipient of the NPS gestione separata" (by internet ratori parasubordinati alla Gestione mdir=50175 — select "Accedi al v.inps.it) and send via e-mail a using the form "Autocertificazione di Stipendi of the Università di Modena 2 (if the graduate is already subscribed is with other clients, it is only necessary sed currency on 25th of the following ilable on-line, at the following link: I which vary from those declared, the sin writing, exonerating the University incerning the same.	
observance of the aforement of the INPS office.	nentioned legislative obligation	ns, be communicated tute), and to any other	to the Ministero delle Finanze (Ministry of public bodies, to permit the same to carry	
Date	(Signature)			